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| Task | Program to accept the amount from the user and display the break-up in descending order of denomination along with the same number of notes |
| Algorithm | 1. Start 2. amt=0, twoth=0, fivehu=0, onehu=0, fifty=0, twty=0, ten=0, rem=0; 3. Print “Enter amount” 4. Read amt 5. twoth=amt/2000 6. amt -= twoth \* 2000 7. fivehu=amt/500 8. amt -= fivehu \* 500 9. onehu=amt/100 10. amt -= onehu \* 100 11. fifty=amt/50 12. amt -= fifty \* 50 13. twty=amt/20 14. amt -= twty \* 20 15. ten=amt/10 16. amt -= ten \* 10 17. rem = amt 18. Print “No. of two thousand rupees notes” 19. Print twoth 20. Print “No. of five hundred rupees notes” 21. Print fivehu 22. Print “No. of one hundred rupees notes” 23. Print onehu 24. Print “No. of fifty rupees notes” 25. Print fifty 26. Print “No. of twenty rupees notes” 27. Print twty 28. Print “No. of ten rupees notes” 29. Print ten 30. Print “Remaining Money” 31. Print rem 32. Print “Total Notes” 33. Print twoth + fivehu + onehu + fifty + twty + ten 34. Stop |
| Program | import java.util.Scanner;  public class Denomination {  public static void main(String[] args) {  int amt=0, twoth=0, fivehu=0, onehu=0, fifty=0, twty=0, ten=0, rem=0;  Scanner in = new Scanner(System.in);  System.out.print("Enter amount: ");  amt = in.nextInt();  for (int i=0; i!=amt;) {  if (amt > 2000) {  twoth = (int) amt / 2000;  amt -= twoth \* 2000;  }  if (amt > 500 && amt < 2000) {  fivehu = (int) amt / 500;  amt -= fivehu \* 500;  }  if (amt > 100 && amt < 500) {  onehu = (int) amt / 100;  amt -= onehu \* 100;  }  if (amt > 50 && amt < 100) {  fifty = (int) amt / 50;  amt -= fifty \* 50;  }  if (amt > 20 && amt < 50) {  twty = (int) amt / 20;  amt -= twty \* 20;  }  if (amt > 10 && amt < 20) {  ten = (int) amt / 10;  amt -= ten \* 10;  }  if (amt < 10) {  rem = amt;  amt=0;  }  }  System.out.println("Two thousand rupee denomination: " + twoth + "\nFive Hundred rupee denomination: " + fivehu + "\nHundred rupee denomination: "+ onehu + "\nFifty rupee denomination: "+ fifty + "\nTwenty rupee denomination: " + twty + "\nTen rupe denomination: "+ ten+ "\nRemaining Amount: "+rem + "\nTotal Notes: "+(twoth+onehu+fivehu+fifty+ten+twty));    }  } |
| Documentation | Variable Use   |  |  |  | | --- | --- | --- | | Variable Name | Data Type | Use | | amt | Int | Input Amount | | twoth | Int | No. of two thousand rupees | | fivehu | Int | No. of five hundred rupees | | onehu | Int | No. of one hundred rupees | | fifty | Int | No. of fifty rupees | | twty | Int | No. of twenty rupees | | ten | Int | No. of ten rupees notes | | rem | Int | Remaining Money | | i | Int | For Loop variable | |
| Output |  |